

1. A screw comprising:

a shank having a head end and a point end;

said shank having a first threaded section and a second threaded section, said first  
5 threaded section being closer to said point end than said second threaded section;

said first threaded section having threads that have a first pitch, said second threaded  
section having threads that have a second pitch, different from said first pitch;

said first threaded section having a first thread diameter, said second threaded section  
having a second thread diameter larger than said first thread diameter, and said head having a  
10 third diameter, said third diameter being greater than said first and second diameters; and

said first threaded section having a first thread angle, said second threaded section  
having a second thread angle smaller than said first thread angle.

2. The screw as in claim 1 further comprising a neck section extending between  
said head and said threaded sections, said neck having leading surfaces, said leading surfaces  
15 being substantially tapered to increase in diameter in a direction from said threaded sections  
towards said head.

3. A screw as in claim 1 wherein said first threaded section and said second  
threaded section are separated by a transition section having no threads.

4. A screw as in claim 1 wherein said first pitch is greater than said second pitch.

5. A screw as in claim 1 wherein said first threaded section and said second threaded section have right hand threads.

6. A screw as in claim 1 wherein said point end includes a tapered segment.

5 7. A screw as in claim 2 wherein said neck further contains a land surface.

8. A method of using a fastener comprising:

providing a fastener having a shank, a head, a tapered section, a first threaded section and a second threaded section, said first threaded section having threads having a first pitch and said second threaded section having threads having a second pitch different from said first  
10 pitch;

engaging said tapered segment of said fastener with a remnant-producing material;

rotating said fastener in the direction of said threads of the first threaded section thereby inserting said fastener into said remnant-producing material and producing remnants from said remnant-producing material;

15 rotating said fastener in the direction of said threads of the first threaded section after said second threaded section becomes engaged with said remnant-producing material thereby causing said second threaded section to capture said produced remnants; and

rotating said fastener until said head engages with said remnant-producing material.

9. A screw for clamping two structures to each other, comprising:

a shank having a head end, a point end, a first threaded section and a second threaded section, said first threaded section being closer to said point end than said second threaded  
5 section;

wherein said first threaded section has threads that have a first pitch and said second threaded section has threads that have a second pitch which is different from said first pitch, and wherein said first threaded section has a first thread angle and said second threaded section has a second thread angle smaller than said first thread angle; and

10 wherein said threaded sections each have a length such that when said head is seated in one structure, said first threaded portion is completely within the other structure.

10. The screw of claim 9, wherein the portion of said first threaded portion closest to said head is proximate to a pair of mating surfaces of the two structures.

11. A method of clamping two structures together with a fastener, comprising:

15 providing a fastener having a shank, a head, a first threaded section and a second threaded section, said first threaded section having threads having a first pitch and said second threaded section having threads having a second pitch different from said first pitch;

engaging said first threaded section of said fastener with a first structure;

rotating said fastener in the direction of the threads of said first threaded section to  
insert said fastener into said first structure;

rotating said fastener in the direction of said threads of the first threaded section after  
said second threaded section becomes engaged with said first structure and said first threaded  
5 section becomes engaged with said second structure; and

rotating said fastener until said head engages with said first structure, wherein upon  
engagement of said head with said first structure said first threaded section is completely  
within said second structure.

12. The method of claim 11, wherein upon said engagement of said head in said  
10 first structure, one end of said first threaded section is proximate to a pair of mating surfaces of  
said two structures.

13. The method of claim 11, wherein said first structure is formed of remnant-  
producing material, said first threaded section producing remnants from said remnant-  
producing material and said second threaded section capturing said produced remnants.

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